Please type a plus sign (+) inside this box	→	+
---------------------------------------------	----------	---

Signature

Please type a plus sign (+) inside this box

+ Approved for use through 10/31/99, OMB 0551-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of Information unless it contains a valid OMB control number.

Substitu	te for form 1449A/PTC)		Complete If Known		
1815	001147:01	-	201 001105	Application Number	UNASSIGNED	
			SCLOSURE	Filing Date	HEREWITH	
STA	TEMENT B	Y	APPLICANT	First Named Inventor	PHILLIP C. THERIAULT	
				Group Art Unit	UNASSIGNED	
(use as many sheets as necessary)			necessary)	Examiner Name	UNASSIGNED	
Sheet	1	of	3	Attorney Docket Number	PD-03W092	

				U.S. PATENT DOC	JMENTS	
xaminer nitials	Cite No.1	U.S. Patent Number	Kind Code ²	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
MM		4,451,119		Meyers, et al	05-29-1984	
$I\Box$		4,915,494		Shipley, et al	04-10-1990	
T = T		4,256,378		Prewo, et al	03-17-1981	
		5,382,309		Seibuld, et al	01-17-1995	
T		5,907,430		Taylor, et al	05-25-1999	
T - T		6,431,715 B2		Scrivens	08-13-2002	
7		5,178,709		Shimodaira, et al	01-12-1993	
		4,842,398		Ducassou	01-27-1989	
		3,942,880		Zelders, Jr.	03-09-1976	
		4,554,197		Chyung, et al	11-19-1985	
V		5,229,196		Seibold, et al	07-20-1993	
-						
					- 	

			FORE	IGN PATENT DOCUMEN	TS			
	Cita	Foreign Patent Document			Name of Patentae or	Date of Publication of	Pages, Columns, Lines,	Τ
No.1	Office ³	Number ⁴	Kind Code ^s (<i>if known</i>)	Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear		
							4	
			$\overline{}$		 		\dagger	
							1	
							+	
							†	
							1	
					1		+	
	<u> </u>						+	
	Cite No.1	Cite	Cite	Cite Foreign Patent Document Kind Code ³	Cite Foreign Patent Document Name of Patentee or	Cite Foreign Patent Document Name of Patentee or Cited Document Cited Document	Cite Foreign Patent Document Name of Patentee or Date of Publication of Pages, Columns, Lines, Where Relevant Passages or Relevant Pages P	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Considered

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the Individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (MIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box

+ PTO/SB/08A (10-98)

Approved for use through 10/31/99. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute	o for form 1449A/PTO)		Complete If Known			
		-	001 00110=	Application Number	UNASSIGNED		
NFU	PRMATION	DI	SCLOSURE	Filing Date	HEREWITH		
STATEMENT BY APPLICANT			APPLICANT	First Named Inventor	PHILIP C. THERIAULT		
				Group Art Unit	UNASSIGNED		
(use as many sheets as necessary)		Examiner Name	UNASSIGNED				
neet .	2	of	3	Attorney Docket Number	PD-03W092		

				U.S. PATENT DOC	UMENTS	
Examiner nitials*	Cite No.1	U.S. Paten Number	t Document Kind Code ² (#known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
ИМ		4,225,569		Matsul, et al	09-30-1980	
		4,772,111		Shimura, et al	09-20-1985	
		5,024,710		Sheaffer, et al	06-18-1991	
		5,428,483		Sato, et al	06-27-1995	
		4,623,228		Galasso, et al	11-18-1986	
77		4,659,548		Gubbay, et al	04-21-1987	
		4,450,207		Donomoto, et al	05-22-1984	
		4.376,803		Katzman	03-15-1983	•
		4,828,008		White, et al	05-09-1989	
1		3,970,136		Cannell, et al	07-20-1976	
						*
		<u> </u>				
-+					1	

•				FORE	IGN PATENT DOCUMEN	TS		
Examine	Cite		Foreign Patent Doo		Name of Patentee or	Date of Publication of	Pages, Columns, Lines, Where Relevant	Τ
Initials*		Office3	Number ⁴	Kind Code ⁵ (# known)	Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	Т⁰
								-
			<u> </u>	-+1				-
								نــــــــــــــــــــــــــــــــــــــ

Examiner // #/ // //	Date	1/2
Signature / May May V	Considered	11/17/51

¹ Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). * For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. * Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.



^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Please type a plus sign (+) inside this box 🛶	+	
-		

PTO/SB/088 (10-96)
Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO	Complete if Known			
WEODMATION DIOCLOSURE	Application Number	UNASSIGNED		
INFORMATION DISCLOSURE	Filing Date	HEREWITH		
STATEMENT BY APPLICANT	First Named Inventor	PHILIP C. THERIAULT		
	Group Art Unit	UNASSIGNED		
(use as many sheets as necessary)	Examiner Name	UNASSIGNED		
Sheet 23 of 3	Attorney Docket Number	PD-03W092		

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-Issue number(s), publisher, city and/or country where published.	T2
ΜЛ		JIM MAYO, et al. "Ultra-Lightweight Optics for Space Applications" Proc Of SPIE Vol. 4013, UV, Optical, and IR Space Telescopes and Instruments, (Apr, 2000) pp. 687-698	
/			
Examiner Signature		Math Math Date Considered 11/18/05	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant,

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



¹ Unique citation designation number. 2 Applicant is to place a check mark here if English language Translation is attached.